



US006584814B2

(12) United States Patent  
Son et al.(10) Patent No.: US 6,584,814 B2  
(45) Date of Patent: Jul. 1, 2003(54) WASHING MACHINE WITH TILTED  
WASHING TUB

## (56) References Cited

(75) Inventors: Ji Chang Son, Kyungsangnam-do  
(KR); Hye Yong Park,  
Kyungsangnam-do (KR); Bong Sang  
Lee, Kyungsangnam-do (KR); Chang  
Won Ryu, Kyungsangnam-do (KR)

## U.S. PATENT DOCUMENTS

2,583,823 A	*	1/1952	Dunham .....	68/25
4,526,020 A		7/1985	Fey et al.	
5,090,220 A		2/1992	Fukuzawa et al.	
5,661,914 A		9/1997	Millet	

(73) Assignee: LG Electronics, Inc., Seoul (KR)

\* cited by examiner

( \*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 82 days.Primary Examiner—Philip R. Coe  
(74) Attorney, Agent, or Firm—Birch, Stewart, Kolasch &  
Birch, LLP

(21) Appl. No.: 09/837,385

## (57) ABSTRACT

(22) Filed: Apr. 19, 2001

Disclosed herein is a washing machine with a tilted washing  
tub. The washing machine includes a casing on the rear  
portion of which an opening is formed. The opening is  
covered with a rear cover provided with an outward protru-  
sion. A washing tub consists of outer and inner tubs. The  
outer tub is positioned in the casing to be tilted forward at  
a predetermined angle for containing washing water. The  
inner tub is positioned in the outer tub for washing and  
spin-drying laundry. Drive means is positioned under the  
outer tub to rotate the outer tub.

## (65) Prior Publication Data

US 2002/0002847 A1 Jan. 10, 2002

20 Claims, 5 Drawing Sheets

## (30) Foreign Application Priority Data

Apr. 19, 2000 (KR) .....

(51) Int. Cl.<sup>7</sup> D06F 23/06; D06F 37/26

(52) U.S. Cl. 68/24; 68/3 R

(58) Field of Search 68/3 R, 23.2, 24,  
68/25, 146